# COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY (Includes Reference to PCT International Applications)

ATTORNEY'S DOCKET NUMBER 22221/1030 (RU-339CIP)

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

ieve I am the original, first and sole d below) of the subject matter which ENZYMES DERIVED FRO	inventor (if only one name is claimed and for which the common of the co	ORGANIS	MS THAT FUNC	TION AS A CE		
specification of which (check only	one item below):					
c 1 is smached hereto.						
[X] was filed as U.S. Patent A (if applicable).	Application Serial No. 09/	716,964 oa No	vember 21, 2000 and	Met Sussiged on		
	tional Application No	00	and was a	mended under PC	T Article 19 or	a :
(if applicable).						
cimowledge the duty to disolose information of the duty to disolose information of the duty to disolose information of the disolose information of the disological designation of the diso	formation which is materi Title 35, United States C	al to the patent ode, § 119 of a er than the Uni	ability of this applica ny application(s) for ited States listed belo	tion in accordance patent or inventor w and have also is	with Title 37, 's certificate or dentified below	Code of
COUNTRY (IF PCT, indicate "PCT") United States	APPLICATION 60/043, 60/043, 0 35, United States Code, crics that is/are listed bel	§ 120 of any toward, insofts	DATE OF FILE (day, month, ye 8-APRIL-19  Jinited States applicat r as the subject matte	ion(s) or PCT introfeach of the ci	PRIORITY CL UNDER 35 U [X] YES [ ] [ ] YES [ ] crustional appliams of this ap	AIMED ISC 119 INO Ino ication(s) plication is not
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COUNTRY (IF PCT, indicate "PCT")  United States  I hereby claim the benefit under Title designating the United States of Am disclosed in that/those prior application the duty to disclose material informathe prior application(s) and the nation PRIOR U.S. APPLICATIONS OR	e 35, United States Code, crics that is/are listed belion(a) in the manner provision as defined in Title 2	§ 120 of any tow and, insofaring the fed	DATE OF FILE (day, month, ye 8-APRIL-19:  Juited States applicant r as the subject matte st paragraph of Title teral Regulations, § 1 his application:	ion(s) or PCT introfeach of the ci 35, United States 35(a) which occurs THE U.S. FOR	PRIORITY CL UNDER 35 U [X] YES [ ] [ ] YES [ ] crustional appliance of this ap Code, § 112, I mred between the	AIMED SC 119 ] NO [NO ication(s) plication is not acknowledge the filing date of
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COUNTRY (IF PCT, indicate "PCT")  United States  Thereby claim the benefit under Titlesignating the United States of Amiliaclosed in that/those prior application the duty to disclose material informathe prior application(s) and the nation PRIOR U.S. APPLICATIONS OR 120:  U.S. APPLICATION 09/642,218	application 60/043, 60	§ 120 of any tow and, insofarided by the first, Code of Fed filling date of the APPLICATION U.S. FAugu	S.C. 119:  DATE OF FILE (day, month, ye  8-APRIL-19:  Jinited States applicat r as the subject matte at paragraph of Title eral Regulations, § 1 his application:  DNS DESIGNATING	ser)  77  sion(s) or PCT inter of each of the class, United States .56(a) which occurs the U.S. FOR	PRIORITY CL UNDER 35 U [X] YES [ ] Crnstional appliaims of this ap Code, § 112, 1 irred between the BENEFIT UNI	AIMED SC 119 NO NO ication(s) plication is not acknowledge the filing date of DER 35 U.S.C. ABANDONE
COUNTRY (IF PCT, indicate "PCT")  United States  I hereby claim the benefit under Titl designating the United States of Am disclosed in that/those prior application the prior application(s) and the nation PRIOR U.S. APPLICATIONS OR 120:  U.S. APPLICATION  09/642,218	e 35, United States Code, crics that is/are listed belion(s) in the manner proviation as defined in Title 3 anal or PCT International PCT INTERNATIONAL CATIONS  NUMBER	§ 120 of any tow and, insofts ided by the first, Code of Fed filing date of the APPLICATION U.S. FAugust Application Applicati	DATE OF FILE (day, month, ye 8-APRIL-19:  United States applicat r as the subject matte st paragraph of Title cral Regulations, § 1 his application:  ONS DESIGNATING	ser)  77  sion(s) or PCT inter of each of the class, United States .56(a) which occurs the U.S. FOR	PRIORITY CL UNDER 35 U [X] YES [ ] Crnstional appliaims of this ap Code, § 112, 1 irred between the BENEFIT UNI	AIMED SC 119 NO NO Ication(s) plication is not acknowledge the filing date of DER 35 U.S.C. ABANDONE

ATTORNEY'S DOCKET NUMBER
22221/1030 (RU-339CIP)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(a) to proscente this application and transact all business in the Patent and Trademark Office connected therewith. Michael L. Goldman, Registration No. 39,727; Joseph M. Noto, Registration No. 32,163; Gunnar G. Leinberg, Registration No. 35,584; Edwin V. Merkel, Registration No. 40,087; Georgia Evans, Registration No. 44,597; Alice Y. Choi, Registration No. 45,758

		Coevi gaz zivana, registration 140. 44	don't time it cond trefacts		
Sond	d Correspondence to:	Michael L. Goldman NIXON PEABODY LL Clinton Square, P.O. Bo Rochester, New York 14	ox 31051 4603	Direct Telephone Calls to: (name and telephone number) Michael L. Goldman (716) 263-1304	
	FULL NAME OF INVENTOR	FAMILY NAME O'Downell	FIRST GIVEN NAME Michael	SECOND GIVEN NAME	
2 0 1	RESIDENCE & CITIZENSHIP	CITY Hastings-en-Hudson	STATE/FOREIGN COUNT New York	TRY COUNTRY OF CITIZENS United States	HIP
	POST OFFICE ADDRESS	P.O. ADDRESS 16 Maple Lane	CITY Hastings-on-Hudson	STATE & ZIP CODE/CTR New York 10706/USA	Y
	FULL NAME OF INVENTOR	FAMILY NAME Yuzhakev	FIRST GIVEN NAME Alexander	SECOND GIVEN NAME	
2 0 2	RESIDENCE & CITIZENSHIP	CITY Maiden	STATE/FOREIGN COUNT Massachusetts	TRY COUNTRY OF CITIZENS Russia	HIP
	POST OFFICE ADDRESS	P.O. ADDRESS 25 Bayrd Street	CITY Malden	STATE & ZIP CODE/CTR Massachusetts 02148/USA	
	FULL NAME OF INVENTOR	FAMILY NAME Yurleya	FIRST GIVEN NAME Oiga	SECOND GIVEN NAME	-
2 0 3	RESIDENCE & CITIZENSHIP	CITY New York	STATE/FOREIGN COUNT New York	TRY COUNTRY OF CITIZENS Russia	HIP
	POST OFFICE ADDRESS	P.O. ADDRESS 430 East 63 <sup>rd</sup> Str., Apt. 3G	CITY New York	STATE & ZIP CODE/CTR New York 10021/USA	ί¥
2	FULL NAME OF INVENTOR	FAMILY NAME Jeruzajmi	FIRST GIVEN NAME David	SECOND GIVEN NAME	<del></del>
0 4	RESIDENCE & CITIZENSHIP	Now York Now York	Men LOIK LINES SECONS		SERT
	POST OFFICE ADDRESS		of symps Cambridge	Dodge Jan Tassuroctes .	13/4C
	FULL NAME OF INVENTOR	FAMILY NAME Bruck	FIRST GIVEN NAME	SECOND GIVEN NAME	-
2 0 5	RESIDENCE & CITIZENSHIP	CITY New York	STATE/FOREIGN COUNT New York	TRY COUNTRY OF CITIZENS United States	SHIP
	POST OFFICE ADDRESS	P.O. ADDRESS 1161 York Avenue, Apt. 11M	CITY New York	STATE & ZIP CODE/CTF New York 10021/USA	RY
	FULL NAME OF INVENTOR	FAMILY NAME Kuriyan	FIRST GIVEN NAME John	SECOND GIVEN NAME	<u> </u>
2 0 6	RESIDENCE & CITIZENSHIP	CITY Berkeley	STATE/FOREIGN COUNT California	TRY COUNTRY OF CITIZENS United States	SHIP
	POST OFFICE ADDRESS	P.O. ADDRESS 936 Oxford Street	CITY Berkeley	STATE & ZIP CODE/CTE California 94787/USA	RY

I hereby declare that all statements made herein of my wn knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statement may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201

DATE

Page 3 of 3

## COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY (Includes Reference to PCT International Applications)

ATTORNEY'S DOCKET NUMBER 22221/1030 (RU-339CIP)

As a below :	named inventor, I be	erchy declare	c that:	•				
My residenc	e, post office addre	ss and citize	nship are as stated	i below next	to my name.		•	· .
l believe l a listed below	m the original, first ) of the subject matt	and sole inv or which is	entor (if only one claimed and for w	name is liste hich a peten	ed below) or an original t is sought on the inven	, first and joint invition entitled;	ventor (if plural	names are
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the specific	nion of which (chec	k only one i	tem below):					
<b>[]</b>	is attached hereto.			,		•		
[X]	was filed as U.S. I (if applicable).	Patent Appli	cation Scrial No.	09/716 <b>,964</b> o	n November 21, 2000	and was amended	oo	_
	was filed as PCT I	nternational	Application No.	·	on and w	s amended under	PCT Article 19	9 on
:	(if applicable).		* 4				· ·	
I hereby sus amendment	te that I have review referred to above.	red and unde	erstand the conten	its of the abo	ve-identified specificat	ions, including the	claims, as am	ended by any
I acknowle Federal Rep	dge the duty to disclerations, § 1.56(a).	ose informs	tion which is mate	crial to the pa	stentability of this appli	ication in accorda	nce with Title 3	7, Code of
internations application States of A	al application(s) desi (s) for patent or inve- merica filed by me o	gnating at k ntor's certif n the same s	east one country of icate or any PCT subject matter has	other than the international ving a filing o	of any application(s) fit United States listed be application(s) designate tate before that of the a	low and have also ing at least one or	identified bek ountry other the	ow any on the United
PRIOR AP	PLICATION(S) AN	D ANY PR	ORITY CLAIM:	S UNDER 33				
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	United States		60/043	3,202	8-APRIL-1	997	[X] YES[	1110
							[]YES[	) NO
designating disclosed in the duty to the prior ap	I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT International filing date of this application:  PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C.							
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Page 1 of 3

ATTORNEY'S DOCKET NUMBER
22221/1030 (RU-539CIP)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. Michael L. Goldman, Registration No. 30,727; Joseph M. Noto, Registration No. 32,163; Gunnar G. Leinberg, Registration No. 35,584; Edwin V. Merkel, Registration No. 40,087; Georgia Evans, Registration No. 44,597; Alice Y. Choi, Registration No. 45,758

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	Send	Correspondence to:

Michael L. Goldman NIXON PEABODY LLP Clinton Square, P.O. Box 31051 Rochester, New York 14603 Direct Telephone Calls to: (name and telephone number) Michael L. Goldman

	Rochester, New York 14		(716) 263-1384	
FULL NAME OF INVENTOR	FAMILY NAME O'Donnell	FIRST GIVEN NAME Michael		SECOND GIVEN NAME E.
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POST OFFICE ADDRESS	16 Maple Lane	CITY Hastings-on-Hudson		STATE & ZIP CODE/CTRY New York 10706/USA
FULL NAME OF INVENTOR	Yuzhakov	Alexander		SECOND GIVEN NAME
RESIDENCE & CITIZENSHIP	CITY Malden	STATE/FOREIGN COUNT Massachusetts	TRY	COUNTRY OF CITIZENSHIP United States (from 11/07/02)
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FULL NAME OF INVENTOR	FAMILY NAME Yurieva	FIRST GIVEN NAME Olga		SECOND GIVEN NAME
RESIDENCE & CITIZENSHIP	CITY New York	STATE/FOREIGN COUNT New York	TRY	COUNTRY OF CITIZENSHIP Russia
POST OFFICE ADDRESS	P.O. ADDRESS 430 East 63 <sup>rd</sup> Str., Apt. 3G	CITY New York		STATE & ZIP CODE/CTRY New York 10021/USA
FULL NAME OF INVENTOR	FAMILY NAME Jeruz <b>almi</b>	FIRST GIVEN NAME  David		SECOND GIVEN NAME
RESIDENCE & CITIZENSHIP	CITY New York	STATE/FOREIGN COUN New York	TRY	COUNTRY OF CITIZENSHIP United States
POST OFFICE ADDRESS	P.O. ADDRESS 1161 York Avenue, #111	CITY New York		STATE & ZIP CODE/CTRY New York 10021/USA
FULL NAME OF INVENTOR	FAMILY NAME Bruck	FIRST GIVEN NAME		SECOND GIVEN NAME
RESIDENCE & CITIZENSHIP	CITY New York	STATE/FOREIGN COUN New York	TRY	COUNTRY OF CITIZENSHIP United States
POST OFFICE ADDRESS	P.O. ADDRESS 1161 York Avenue, Apt. 11M	CITY New York		STATE & ZIP CODE/CTRY New York 10021/USA
FULL NAME OF INVENTOR	FAMILY NAME Kuriyan	FIRST GIVEN NAME John		SECOND GIVEN NAME
RESIDENCE & CITIZENSHIP	CITY Berkeley	STATE/FOREIGN COUN California	TRY	COUNTRY OF CITIZENSHIP United States
POST OFFICE ADDRESS	P.O. ADDRESS 936 Oxford Street	CITY Berkeley		STATE & ZIP CODE/CTRY California 94707/USA
	RESIDENCE & CITIZENSHIP POST OFFICE ADDRESS FULL NAME OF INVENTOR RESIDENCE & CITIZENSHIP POST OFFICE ADDRESS FULL NAME OF INVENTOR RESIDENCE & CITIZENSHIP POST OFFICE ADDRESS FULL NAME OF INVENTOR RESIDENCE & CITIZENSHIP POST OFFICE ADDRESS FULL NAME OF INVENTOR RESIDENCE & CITIZENSHIP POST OFFICE ADDRESS FULL NAME OF INVENTOR RESIDENCE & CITIZENSHIP POST OFFICE ADDRESS FULL NAME OF INVENTOR RESIDENCE & CITIZENSHIP POST OFFICE ADDRESS FULL NAME OF INVENTOR RESIDENCE & CITIZENSHIP POST OFFICE	FULL NAME OF INVENTOR OF INVENTOR  RESIDENCE & CITY Hastings-on-Hudson POST OFFICE ADDRESS FULL NAME OF INVENTOR  RESIDENCE & CITY RESIDENCE & CITY RESIDENCE & CITY RESIDENCE & CITY Adden POST OFFICE ADDRESS FULL NAME OF INVENTOR  RESIDENCE & CITY ROW York POST OFFICE ADDRESS FULL NAME OF INVENTOR RESIDENCE & CITY ROW York RESIDENCE & CITY ROW Y	FULL NAME OF INVENTOR O'Donnell FESIDENCE & CITY POST OFFICE ADDRESS FULL NAME OF INVENTOR FAMILY NAME O'Donnell FOST OFFICE ADDRESS FULL NAME OF INVENTOR FAMILY NAME FIRST GIVEN NAME FIRST GIV	FULL NAME OF INVENTOR OF CONTROL

Page 2 of 3

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statement may jeopardize the validity of the application or any patem issuing thereon. SIGNATURE OF INVENTOR 203 SIGNATURE OF INVENTOR 201 SIGNATURE OF INVENTOR 202 DATE DATE DATE SIGNATURE OF INVENTOR 206 SIGNATURE OF INVENTOR 205 SIGNATURE OF INVENTOR 204 DATE DATE DATE

Page 3 of 3

### COMBINED DEG-ARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY (Includes Reference to PCT International Applications)

ATTORNEY'S DOCKET NUMBER
22221/1030 (RU-339CIP)

As a below named inventor, I hereby declare that:

My residence, post ffice address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

ENZYMES DERIVED FROM THERMOPHILIC ORGANISMS THAT FUNCTION AS A CHROMOSOMAL REPLICASE, PREPARATION AND USE THEREOF						
the specification of which (chec	k only one item below):					
[ ] is attached hereto.	•					
[X] was filed as U.S. I (if applicable).	Patent Application Serial No.	. 09/716,964 on N	lovember 21, 2000 a	and was amended	i on	· <del></del>
[ ] was filed as PCT I	nternational Application No	on	and wa	s amended under	PCT Article 1	9 on
(if applicable).					-	
I hereby state that I have review amendment referred to above.	red and understand the conte	nts of the above-i	dentified specification	ons, including the	e claims, as am	ended by any
I acknowledge the duty to discle Federal Regulations, § 1.56(a).	ose information which is ma	terial to the paten	tability of this applic	cation in accorda	nce with Title	37, Code of
I hereby claim priority benefits international application(s) desi application(s) for patent or inve- States of America filed by me of	gnating at least one country ontor's certificate or any PCT	other than the Un international app	ited States listed bel dication(s) designati	ow and have also ng at least one co	o identified below ountry other the	ow any an the United
PRIOR APPLICATION(S) AN	D ANY PRIORITY CLAIM	S UNDER 35 U.	S.C. 119:			
COUNTRY (IF PCT, indicate "PCT")  APPLICATIO		ON NUMBER	DATE OF FIL. (day, month, y		PRIORITY CLAIMED UNDER 35 USC 119	
United States 60/04		3,202	8-APRIL-19	97	(X) YES[] NO	
					[]YES[	]NO
I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT International filing date of this application:						
PRIOR U.S. APPLICATIONS (120:	OR PCT INTERNATIONAL	L APPLICATION	NS DESIGNATING	THE U.S. FOR	BENEFIT UN	DER 35 U.S.C.
	PLICATIONS			STATUS (Che	STATUS (Check One)	
U.S. APPLICATION	ON NUMBER	<del> </del>	ING DATE	PATENTED	PENDING	ABANDONED
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09/057,			1 8, 1998			X
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### ATTORNEY'S DOCKET NUMBER 22221/1030 (RU-339CIP)

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1		Rochester, New York 1		263-1304
	FULL NAME	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	OF INVENTOR	O'Donnell	Michael	E.
2	RESIDENCE &	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
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	FULL NAME OF	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	INVENTOR	Yuzhakov	Alexander	
2 0	RESIDENCE &	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
2	CITIZENSHIP	Malden	Massachusetts	Russia
<b>!</b>	POST OFFICE	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY
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	FULL NAME OF	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	INVENTOR	Yurieva	Olga	
2	RESIDENCE &	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
3	CITIZENSHIP	New York	New York	Russia
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	ADDRESS	430 East 63 <sup>rd</sup> Str., Apt. 3G	New York	New York 10021/USA
	FULL NAME OF	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	INVENTOR	Jeruzalmi	David	
2 0	RESIDENCE &	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
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	FULL NAME OF	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	INVENTOR	Bruck	Irina	
2 0	RESIDENCE &	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
5	CITIZENSHIP	New York	New York	United States
1	POST OFFICE	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY
	ADDRESS	1161 York Avenue, Apt. 11M	New York	New York 10021/USA
	FULL NAME OF	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	INVENTOR	Kuriyan	John	<u>                                     </u>
2	RESIDENCE &	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
0 6	CITIZENSHIP	Berkeley	California	United States
	POST OFFICE	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY
	ADDRESS	936 Oxford Street	Berkeley	California 94707/USA
	<del></del>			<del></del>

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statement may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203
With. O'S orles		White 3
DATE 2/14/2003	DATE	DATE 2/14/03
SIGNATURE OF INVENTOR 204	SIGNATURE OF INVENTOR 205	SIGNATURE OF INVENTOR 206
DATE	DATE 2/14/03	DATE

Page 3 of 3

# COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY (Includes Reference to PCT International Applications)

ATTORNEY'S DOCKET NUMBER 22221/1030 (RU-339CIP)

DATE OF FILLIA	one name is listed below) or an original, first and joint inventor (it plural names are for which a petent is sought on the invention entitled:  PHILLC ORGANISMS THAT FUNCTION AS A CHROMOSOMAL  PREPARATION AND USE THEREOF  I No. 09/716,964 on November 21, 2000 and was amended on
pelieve I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if palial names are sted below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:  ENZYMES DERIVED FROM THERMOPHILIC ORGANISMS THAT FUNCTION AS A CHROMOSOMAL REPLICASE, PREPARATION AND USE THEREOF  ac specification of which (check only one item below):  [] is smached hereto.  [] was filed as U.S. Patent Application Scrial No. 09/716,964 on November 21, 2000 and was amended on	one name is listed below) or an original, first and joint inventor (if planal names are for which a patent is sought on the invention entitled:  OPHILIC ORGANISMS THAT FUNCTION AS A CHROMOSOMAL  OPHILIC ORGANISMS THAT FUNCTION AS A CHROMOSOMAL  OPHILIC ORGANISMS THAT FUNCTION AS A CHROMOSOMAL  ON and was amended on  I No. 09/716,964 on November 21, 2000 and was amended on  a No and was amended under PCT Article 19 on  contents of the above-identified specifications, including the claims, as amended by any  is material to the patentability of this application in accordance with Title 37, Code of  States Code, § 119 of any application(s) for patent or inventor's certificate or of any PCT  untry other than the United States listed below and have also identified below any  PCT international application(s) designating at least one country other than the United ther having a filing date before that of the application(s) of which priority is claimed:  LAIMS UNDER 35 U.S.C. 119:  CATION NUMBER (day, month, year) [] YES[] NO  [] YES[] NO
clieve I am the original, first and sole inventor (if only one name is listed below) of an original, first and joint inventor (if phiral names are debelow) of the subject matter which is claimed and for which a patent is sought on the invention entitled:  ENZYMES DERIVED FROM THERMOPHILIC ORGANISMS THAT FUNCTION AS A CHROMOSOMAL REPLICASE, PREPARATION AND USE THEREOF  especification of which (check only one item below):  [] is smached hereto.  [X] was filed as U.S. Patent Application Scrial No. 09/716,964 on November 21, 2000 and was amended on	one name is listed below) or an original, first and joint inventor (if plural names are for which a patent is sought on the invention entitled:  OPHILIC ORGANISMS THAT FUNCTION AS A CHROMOSOMAL  PREPARATION AND USE THEREOF  I No. 09/716,964 on November 21, 2000 and was amended on
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(if applicable).  On and was amended under PCT Article 19 on (if applicable).  Rereby state that I have reviewed and understand the contents of the above-identified specifications, including the claims, as amended by an endment referred to above.  Acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of ederal Regulations, § 1.56(a).  Thereby claim priority benefits under Title 35, United States Code, § 119 of any application(s) for patent or inventor's certificate or of any international application(s) designating at least one country other than the United States listed below and have also identified below any polication(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States listed below and have also identified below any polication(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States (in the application(s) of which priority is claimed:  ERIOR APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:  DATE OF FILING PRIORITY CLAIMED	and was amended under PCT Article 19 on  contents of the above-identified specifications, including the claims, as amended by any is material to the patentability of this application in accordance with Title 37, Code of  States Code, § 119 of any application(s) for patent or inventor's certificate or of any PCT unity other than the United States listed below and have also identified below any y PCT international application(s) designating at least one country other than the United mer having a filing date before that of the application(s) of which priority is claimed:  LAIMS UNDER 35 U.S.C. 119:  DATE OF FILING (day, month, year)  PRIORITY CLAIMED UNDER 35 USC 119  [] YES[] NO  [] YES[] NO
(if applicable).  ereby state that I have reviewed and understand the contents of the above-identified specifications, including the claims, as amended by an endment referred to above.  ecknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of external Regulations, § 1.56(a).  Thereby claim priority benefits under Title 35, United States Code, § 119 of any application(s) for patent or inventor's certificate or of any international application(s) designating at least one country other than the United States listed below and have also identified below any international application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States listed below and have also identified below any polication(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States listed below and have also identified below application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States listed below and have also identified below application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States listed below and have also identified below any international application(s) designating at least one country other than the United States listed below and have also identified below any international application(s) designating at least one country other than the United States listed below and have also identified below and ha	contents of the above-identified specifications, including the claims, as amended by any is material to the patentability of this application in accordance with Title 37, Code of  States Code, § 119 of any application(s) for patent or inventor's certificate or of any PCT untry other than the United States listed below and have also identified below any y PCT international application(s) designating at least one country other than the United iter having a filing date before that of the application(s) of which priority is claimed:  LAIMS UNDER 35 U.S.C. 119:  DATE OF FILING (day, month, year)  PRIORITY CLAIMED UNDER 35 USC 119  [] YES[] NO  [] YES[] NO
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ereby state that I have reviewed and understand the contents of the above-identified specifications, including the claims, as amended by as sendment referred to above.  Acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of identifications, § 1.56(a).  Thereby claim priority benefits under Title 35, United States Code, § 119 of any application(s) for patent or inventor's certificate or of any International application(s) designating at least one country other than the United States listed below and have also identified below any ternational application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States listed below and have also identified below any polication(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States listed below and have also identified below any polication(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States listed below and have also identified below any ternational application(s) designating at least one country other than the United States listed below and have also identified below any ternational application(s) designating at least one country other than the United States listed below and have also identified below any ternational application(s) designating at least one country other than the United States listed below and have also identified below any ternational application(s) and have also identified below	States Code, § 119 of any application(s) for patent or inventor's certificate or of any PCT untry other than the United States listed below and have also identified below any PCT international application(s) designating at least one country other than the United States listed below and have also identified below any PCT international application(s) designating at least one country other than the United inter having a filing date before that of the application(s) of which priority is claimed:  LAIMS UNDER 35 U.S.C. 119:  DATE OF FILING (day, month, year)  PRIORITY CLAIMED UNDER 35 USC 119  [] YES[] NO  [] YES[] NO
cknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of deral Regulations, § 1.56(a).  Mereby claim priority benefits under Title 35, United States Code, § 119 of any application(s) for patent or inventor's certificate or of any I ternational application(s) designating at least one country other than the United States listed below and have also identified below any ternational application(s) designating at least one country other than the United States listed below and have also identified below any ternational application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States (s) designating at least one country other than the United States (s) designating at least one country other than the United States (s) designating at least one country other than the United States (s) designating at least one country other than the United States (s) designating at least one country other than the United States (s) designating at least one country other than the United States (s) designating at least one country other than the United States (s) designating at least one country other than the United States (s) designating at least one country other than the United States (s) designating at least one country other than the United States (s) designating at least one country other than the United States (s) designating at least one country other than the United States (s) designating at least one country other than the United States (s) designating at least one country other than the United States (s) designating at least one country other than the United States (s) designation (s) designati	States Code, § 119 of any application(s) for patent or inventor's certificate or of any PCT untry other than the United States listed below and have also identified below any PCT international application(s) designating at least one country other than the United States listed below and have also identified below any PCT international application(s) designating at least one country other than the United inter having a filing date before that of the application(s) of which priority is claimed:  LAIMS UNDER 35 U.S.C. 119:  DATE OF FILING (day, month, year)  PRIORITY CLAIMED UNDER 35 USC 119  [] YES[] NO  [] YES[] NO
cknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of deral Regulations, § 1.56(a).  Mereby claim priority benefits under Title 35, United States Code, § 119 of any application(s) for patent or inventor's certificate or of any I ternational application(s) designating at least one country other than the United States listed below and have also identified below any pelication(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States listed below and have also identified below any pelication(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States (America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:  RIOR APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:  DATE OF FILING  PRIORITY CLAIMED	States Code, § 119 of any application(s) for patent or inventor's certificate or of any PCT untry other than the United States listed below and have also identified below any y PCT international application(s) designating at least one country other than the United ther having a filing date before that of the application(s) of which priority is claimed:  LAIMS UNDER 35 U.S.C. 119:  DATE OF FILING PRIORITY CLAIMED UNDER 35 USC 119  60/043,202  8-APRIL-1997  [X] YES [] NO  [] YES [] NO
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RIOR APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:  DATE OF FILING PRIORITY CLAIMED	LAIMS UNDER 35 U.S.C. 119:  DATE OF FILING PRIORITY CLAIMED UNDER 35 USC 119  60/043,202 8-APRIL-1997 [X] YES[] NO  [] YES[] NO
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DATE OF FILING	CATION NUMBER (day, month, year)  60/043,202  8-APRIL-1997  [X] YES [] NO  [] YES [] NO
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United States	DOT interestinal emiliation(s)
[]YES[]NO	es Code, 5 120 of any United States application(s) or PCT international application(s)
I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or PCT international application(s) hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or PCT international application(s)	
A A Linius States of America unit in the control of	and an attended to the first Code & 112 Lacknowledge
disclosed in that/those prior applications) in the 137 Code of Federal Regulations, § 1.56(a) which occurred between the filling	mer provided by the tirst baragraph of the 33, Onited States
	Title 37 Code of Federal Regulations, 6 1.56(a) which occurred between the filing dates of
the prior applications and are	in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing dates of mational filing date of this application:
PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35	in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing dates of mational filing date of this application:
PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDERSON  120:  U.S. APPLICATIONS  STATUS (Check One)	in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing dates of mational filing date of this application:  TIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C.  STATUS (Check One)
PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDERSTANDED 120:  U.S. APPLICATIONS STATUS (Check One)  U.S. APPLICATION NUMBER U.S. FILING DATE PATENTED PENDING ABAN	in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing dates of mational filing date of this application:  TIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C.  STATUS (Check Onc)  U.S. FILING DATE PATENTED PENDING ABANDONE
PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDERSON  U.S. APPLICATIONS  STATUS (Check One)	In Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing dates of marional filing date of this application:  ITONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.SC.  STATUS (Check One)  U.S. FILING DATE PATENTED PENDING ABANDONE  August 18, 2000 X
PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDERSTANDED INTO STATUS (Check Onc)  U.S. APPLICATION NUMBER  U.S. FILING DATE  PATENTED  PENDING  ABAN  A WOOD 18 2000	Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing dates of mational filing date of this application:    HONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C.
PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDERSTANDING.  U.S. APPLICATIONS  U.S. APPLICATION NUMBER  U.S. FILING DATE  PATENTED  PENDING  ABAN  09/642,218  August 18, 2000  X	Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of marional filing date of this application:  TIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.SC.  STATUS (Check One)  U.S. FILING DATE PATENTED PENDING ABANDONE  August 18, 2000 X  April 8, 1998 X
PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDERSTANDED.  U.S. APPLICATIONS  U.S. APPLICATION NUMBER  U.S. FILING DATE  PATENTED  PENDING  ABAN  09/642,218  August 18, 2000  X  09/057,416  April 8, 1998	Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing dates of mational filing date of this application:    TIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C.

ATTORNEY'S DOCKET NUMBER
22221/1030 (RU-339CIP)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. Michael L. Goldman, Registration No. 30,727; Joseph M. Noto, Registration No. 32,163; Gunnar G. Leinberg, Registration No. 35,584; Edwin V. Merkel, Registration No. 40,087; Georgia Evans, Registration No. 44,597; Alice Y. Chol, Registration No. 45,758

Send Correspondence to	NIXON PEABODY LLP Clinton Square, P.O. Box 3 Rochester, New York 14603	
FULL NAME	FAMILY NAME	FIRST

Direct Telephone Calls to: (name and telephone number) Michael L. Goldman (716) 263-1304

		FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	FULL NAME OF INVENTOR	O'Donnell	Michael	E.
2		CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
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	FULL NAME OF	Vuzhakov	Alexander	SECOND GIVEN NAME
	INVENTOR	A	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
2	RESIDENCE &	CITY		
2	CITIZENSHIP	Malden	Massachusetts	Russia
	POST OFFICE	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY
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	FULL NAME OF	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
1	INVENTOR	Yurieva	Olga	
2	RESIDENCE &	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
0	CITIZENSHIP	New York	New York	Russia
ľ	POST OFFICE	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY
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	FULL NAME OF	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	INVENTOR	Jerozalmi	David	
2	RESIDENCE &	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
0	CITIZENSHIP	New York	New York	United States
"	POST OFFICE	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY
	ADDRESS	1161 York Avenue, #111	New York	New York 10021/USA
	FULL NAME OF	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
1	INVENTOR	Bruck	Irina	
2	RESIDENCE &	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
0	CITIZENSHIP	New York	New York	United States
5	POST OFFICE	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY
1	ADDRESS	1161 York Avenue, Apt. 11M	New York	New York 10021/USA
1-	FULL NAME OF	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	INVENTOR	Kuriyan	John	
2	RESIDENCE &	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
0	CITIZENSHIP	Berkeley ( 3 1965	California	United States
16	POST OFFICE	P.O. ADDRESS 622 San	CITY	STATE & ZIP CODE/CTRY
1	ADDRESS	936 Oxford Street Luis Rd	Berkeley	California 94707/USA
	1		<u> </u>	Page 2 of 2

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statement may jeopardize the validity of the application or any patent issuing thereon.

such willful false statement may jeopardi SIGNATURE OF INVENTOR 201	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203
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